

WHAT IS CLAIMED IS:

- 1           1.   A method of providing telecommunications services comprising the  
2   steps of:  
3                sending by a call server of a first trigger linked to a first call event to a  
4   service manager in response to occurrence of the first call event;  
5                sending by the call server of a second trigger linked to a second call  
6   event to the service manager in response to occurrence of the second call event;  
7                in response to receipt of the first and the second triggers, the service  
8   manager performing a service interaction management analysis and determining  
9   which applications should be executed; and  
10              in response to a determination that at least one application should be  
11   executed, invoking by the service manager of the at least one application via an  
12   application-programming interface.
- 1           2.   The method of claim 1 wherein the step of invoking further comprises  
2   providing to the at least one application information regarding an object with which  
3   the at least one application must interact.

1           3.    The method of claim 2 further comprising the step of interacting by the  
2    at least one application directly with the call server via the application-programming  
3    interface.

1           4.    The method of claim 3 wherein the application-programming interface  
2    comprises Open Service Access (OSA).

1           5.    The method of claim 4 wherein the step of interacting directly with the  
2    call server is responsive to a determination that no service interaction management  
3    issues are present.

1           6.    The method of claim 2 further comprising the step of interacting by the  
2    at least one application with the service manager via the application-programming  
3    interface.

1           7.    The method of claim 6 wherein the application-programming interface  
2    comprises Open Service Access (OSA).

1           8. The method of claim 7 further comprising the step of interacting by the  
2 service manager via the application-programming interface with the call server, the  
3 service manager serving as a proxy.

1           9. The method of claim 1 further comprising caching by the service  
2 manager of call-related information included in the triggers.

1           10. The method of claim 9 further comprising the step of proxying by the  
2 service manager between the at least one application and the call server.

1           11. The method of claim 1 wherein the triggers comprise intelligent-  
2 networking (IN) triggers.

1           12. The method of claim 11 wherein at least one of the triggers comprises  
2 an Open Service Access (OSA) requirement.

1           13. The method of claim 12 wherein the OSA requirement includes a  
2       reference to a call object on the call server.

1           14. The method of claim 1 further comprising the step of obtaining by the  
2       call server of a plurality of trigger criteria from a user profile database.

1           15. The method of claim 14 wherein the triggers permit dynamic association  
2       of the call server to a particular user.

1           16. The method of claim 1 wherein the first call event and the second call  
2       event are the same event.

1           17. An application-programming-interface-based telecommunications  
2 system comprising:

3                   a call server obtaining criteria corresponding to at least one trigger from  
4 a user profile database and, in response to occurrence of the criteria, sending the at  
5 least one trigger;

6                   a service manager receiving the at least one trigger and, in response to  
7 receipt of the at least one trigger, performing a service interaction management  
8 analysis and determining in what manner applications should be executed;

9                   an application-programming interface adapted to permit the call server,  
10 the service manager, and the applications to communicate; and

11                  at least one application being invoked in response to a communication  
12 from the service manager via the application-programming-interface.

1           18. The system of claim 17 wherein the application-programming interface  
2 comprises Open Service Access (OSA).

1           19. The system of claim 17 wherein the service manager serves as a proxy  
2           between the first call server and the at least one application.

1           20. The system of claim 17 wherein the service manager directs the at least  
2           one application to interact directly with the call server.

1           21. The method of claim 17 wherein the service manager caches call-related  
2           information included in the at least one trigger.

1           22. The system of claim 17 wherein the at least one trigger comprises  
2           intelligent-networking (IN) triggers.

1           23. The system of claim 22 wherein the at least one trigger comprises an  
2           Open Service Access (OSA) requirement.

1           24. The system of claim 22 wherein the OSA requirement includes a  
2           reference to a object on the call server.

1           25. A telecommunications system comprising:  
2                   a service node adapted to communicate according to pre-determined  
3 criteria via an application-programming interface (API) with at least one application  
4 or via a networking protocol; and  
5                   at least one network entity adapted to send to the service node a  
6 networking protocol trigger that includes an API requirement, the API requirement  
7 requesting an API response to the trigger, wherein the service node is adapted to,  
8 depending on the pre-determined criteria, respond to the network entity according  
9 to the networking protocol or to communicate with the at least one application via  
10 the API.

1           26. The system of claim 25 wherein the service node is adapted to respond  
2 to the network entity via the API.

1           27. The system of claim 25 wherein the at least one application  
2 communicates directly with the network entity via the API in response to the  
3 communication by the service node to the at least one application.

1           28. The system of claim 25 wherein the networking protocol comprises the  
2 intelligent-networking (IN) protocol.

1           29. The system of claim 28 wherein the API requirement comprises an  
2 Open Service Access (OSA) requirement.

1           30. The system of claim 29 wherein the OSA requirement includes  
2 information regarding an object with which the at least one application must  
3 interact.

1           31. The system of claim 28 wherein the service node comprises a service  
2 control point (SCP).



1           32. A method of converging telecommunication systems comprising:  
2                 sending by at least one network entity to a service node a networking  
3 protocol trigger that includes an application-programming interface (API)  
4 requirement, the API requirement requesting an API response to the trigger; and  
5                 depending on pre-determined criteria, responding by the service node  
6 to the network entity according to the networking protocol or communicating by the  
7 service node with at least one application or with the network entity via the  
8 application-programming interface (API).

1           33. The method of claim 32 further comprising the step of communicating  
2 by the at least one application directly with the network entity via the API in  
3 response to the step of communicating by the service node with the at least one  
4 application.

1           34. The method of claim 32 wherein the networking protocol comprises the  
2 intelligent-networking (IN) protocol.

1           35. The method of claim 34 wherein the API requirement comprises an  
2   Open Service Access (OSA) requirement.

1           36. The method of claim 35 wherein the OSA requirement includes  
2   information regarding an object with which the at least one application must  
3   interact.

1           37. The method of claim 34 wherein the service node comprises a service  
2   control point (SCP).